Enterprise IT Services Initiatives

October 22, 2003

Agenda

- Purpose
- Ongoing initiatives
- POM06 Tiger Team
- Next step

Purpose

- **To provide information on:**
  - Ongoing Enterprise IT initiatives
  - POM06 Tiger Team efforts
- **To identify next steps for POM06 process**

Ongoing Initiatives

IT Summit

‘03 | ’04 | ’05 | ’06

Product: FY04/05 Initiatives
Timeframe: *6 – 24 months*

Short-term solution to address immediate ’04 direction

POM-06 Tiger Team

‘03 | ’04 | ’05 | ’06

Product: POM-06 Enterprise Services initiatives
Timeframe: FYDP

Short-term solution to address POM-06 submit

Capital Planning IPT

‘03 | ’04 | ’05 | ’06

Product: Repeatable IT Capital Planning Process
Timeframe: Ongoing

Viewed as long-term process and solution

POM ’06 Tiger Team – Purpose

- **Identify issues for POM ’06 submission**
- **Continue refining POM06 issues for further transition to Capitol IT Planning process**
- **Work with N61 as the resource sponsor for Enterprise wide core IT services**

Develop a POM’06 Submission for Enterprise IT Services

POM ’06 Tiger Team – Members

BLII	C4HQMC	Dir. NMCI
DoN CIO	N0956 CIO	N1
N4	N61K	N61E
N615	N64	NITE
NADTF	NMCI	NNWC, N80E
OPNAV CIO	PEO-C4I	PEO-IT
PM NMCI/ MARCOR SYSCOM	SPAWAR San Diego	SPAWAR CHENG

POM ’06 Tiger Team – Process

- **Define and scope Enterprise IT Services**
- **Sources of strategy**
  - Map initiatives to strategy
  - Map initiatives to the Enterprise Services FAM Taxonomy to capture business needs
- **Decision criteria for prioritization**
- **Voting results**
- **Pricing strategy**

Sources of Strategy

- **Federal-level**
  - Clinger-Cohen Act
- **DoD-level**
  - DoD PKI Policy
  - GIG v2
- **DoN-level**
  - ASN (RDA) Strategic Plan 1999-2004
  - Sea Power 21
  - CNO's Guidance for 2003
  - FORCEnet
  - DoN IM/IT Strategic Plan 2002/2003
  - DoN XML Vision
  - DoN XML Policy
  - OPNAV N6/N7 Top Nine Issues
  - Naval Transformation Roadmap/FORCEnet
  - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
  - POM06 FORCEnet Capabilities List

Decision Criteria (for team voting)

- **Alignment to Strategy**
  What is the estimated alignment of the need with DoD, DoN, other services, and industry strategies?

High	High - Medium	Medium	Medium - Low	Low
100% - 75%	75% - 55%	55% - 45%	45% - 25%	25% - 0%

- **Impact to the Navy Enterprise**
  What is the estimated level of benefit this will deliver to the fleet?

High	High - Medium	Medium	Medium - Low	Low
100% - 75%	75% - 55%	55% - 45%	45% - 25%	25% - 0%

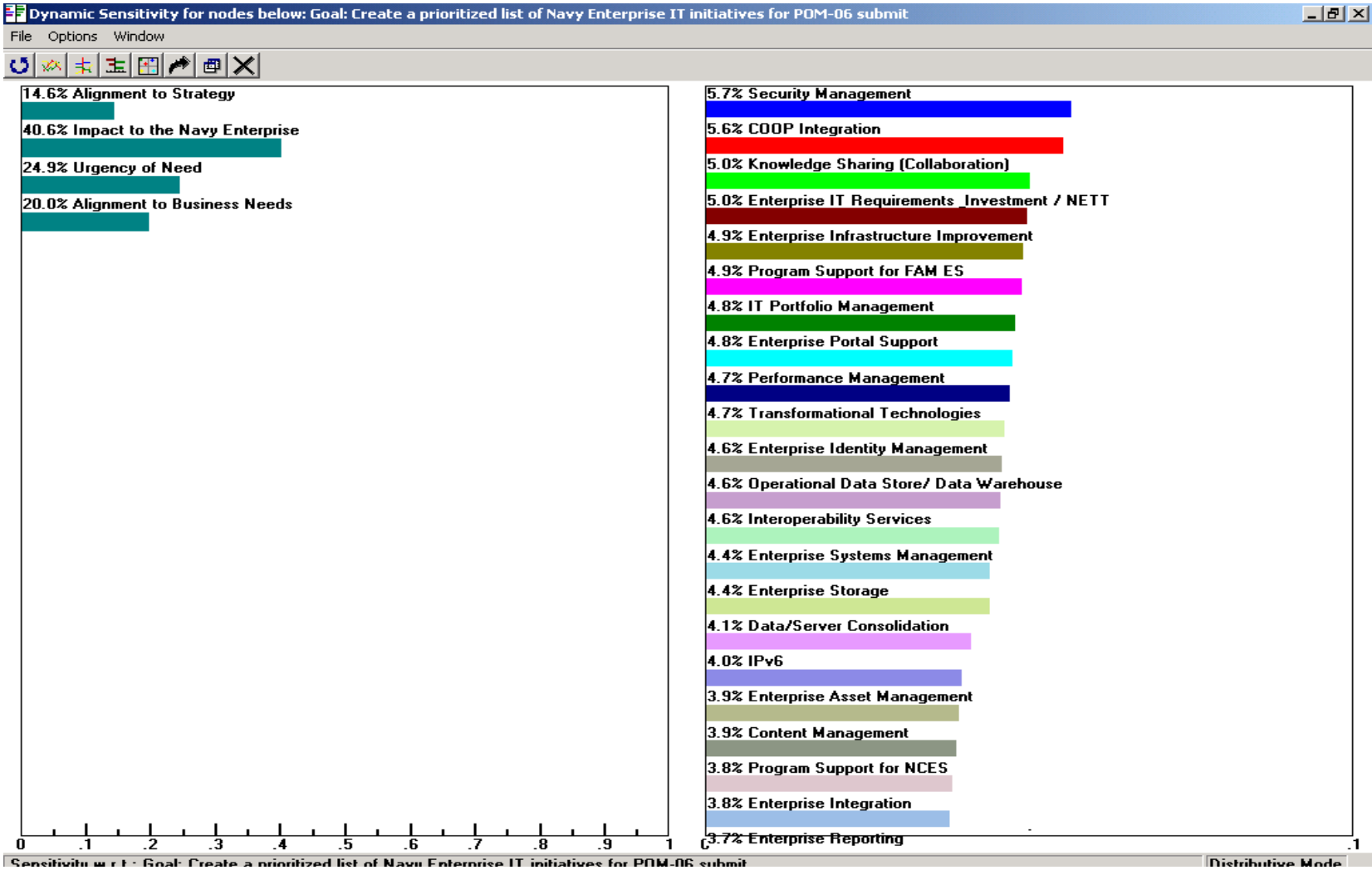
- **Urgency of Need**
  What is the optimal estimated amount of time to begin implementation?

Immediate	Short Term	Near Term	Long Term
Less than 1 year	1 to 3 years	3 to 6 years	> 6 years

- **Alignment to Business Need**

High	High - Medium	Medium	Medium - Low	Low
100% - 75%	75% - 55%	55% - 45%	45% - 25%	25% - 0%

Tiger Team Voting Results



Pricing Model Assumptions

- **Yearly cost for FTE = $200,000**
- **FTE will vary based on the complexity of the task**
- **User population: active duty and civilian employees – no contractors and reservists**
- **Government-negotiated HW/SW cost was used**
  - GSA Advantage
  - DoD ESI - referenced when possible
- **Existing infrastructure and facilities will support new hardware and software**
- **Accounted for "managed seat" IT environment (NMCI)**
  - Services accessed primarily through web interfaces
  - Reduces/negates NMCI desktop installation & management fees

Pricing Model Assumptions (cont)

- **Model did not include:**
  - Cost of Existing HW/SW or on-going initiatives
  - Interface cost between NMCI and IT services
  - Potential discount due to large number of licenses purchased
- **Anticipate greater costing efficiencies during implementation**
  - Existing efforts may be used as pilots
  - Existing HW/SW licenses may decrease overall license purchase

Cost Model Summary

- **The cost estimate model was developed to provide rough order of magnitude**
- **The final packet for each cost estimate will include:**
  - Scope of capability/initiative
  - Assumptions in data collection
  - Cost estimate model and detailed worksheet

Next Steps

- Continue to increase the fidelity of the model
- Identify and substantiate DoN benefits and savings
- Verify the sequencing of the implementation of services

BACKUP INFORMATION

Cost Savings from Implementation Efficiencies

- **“Building block” implementation plan**
- **First initiatives deployed will lay groundwork for subsequent initiatives to reuse**
  - Understanding of existing networks, applications, and user sites
  - Benchmarking of user population
- **Cost savings and efficiency gains will occur with each subsequent initiative**
- **Spiral implementation process will leverage lessons learned in initial spirals**

Stand-Alone Cost Will Decrease

Why Enterprise Services?

- **Enterprise services provide numerous IT cost savings and improved efficiencies**
- **Enterprise services are key enablers of joint IT initiatives, e.g. GES/NCES**
- **Enterprise services map to multiple DoN and DoD strategic objectives**
- **Enterprise services represent critical components of FORCEnet and Sea Power 21**

Enterprise Services Enabling Sea Power 21 and FORCEnet

- **Full coalition interoperability**
  - Enterprise Infrastructure Improvement – establish plan for achieving interoperable infrastructure
  - Interoperability Services – use Web Service technology to exchange data and information across systems and networks
  - Enterprise Integration – integrate systems and networks to improve information flow
- **Shared common undersea picture**
  - Enterprise Asset Management – allows understanding of where assets are located and utilized
  - IT Portfolio Management – similar to above, but more focused on relating IT assets with program management objectives
- **Flawless combat ID & blue force tracking**
  - Enterprise Identity – establishes a baseline of identity systems across the DoN that all other systems can reference for accurate identity checks

Enterprise Services Enabling Sea Power 21 and FORCEnet

- **Ubiquitous communications**
  - Enterprise Portal Application Support – enterprise users looking to the same source for all information pertinent to their tasks
  - Content Management – aids in distribution and improves accuracy of data and information
  - Knowledge Sharing/Collaboration – connect the right people to enhance understanding and limit duplication of effort
- **Ironclad network/defense-in-depth**
  - Security Management – centralize understanding of networks and associated security policy and implementation
  - COOP Integration – establish policies and implementations to provide appropriate levels of data and system recovery across the DoN

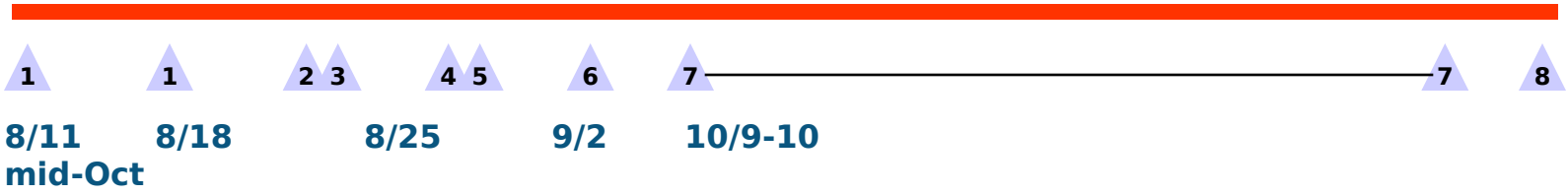
FORCEnet NCP Goals

- **Get everyone on protected nets**
  - Security Management – creates the security infrastructure and policy to enforce it
  - COOP Integration – same as security management, just with data recovery and fail-over capability
  - Enterprise Identity Management – proper identification allows access to appropriate people and denies access to those without proper credentials
- **Get the right info to the right place**
  - Content Management – put controls in place to better manage documents, records, web content, etc.
  - Knowledge Sharing/Collaboration – using the right information to improve processes
  - Enterprise Reporting/Business Intelligence – assists in knowing what the “right” information is

Sources of Analysis

Data Sources	Validation Authority
List of top vendors: Gartner Group (Magic Quadrant et al)	N61 Branch Heads
HW/SW costs: GSA Advantage	NMCI Personnel
Cost estimate model: DoD 5000.02 and other industry implementation methodologies	Codes within PEO IT
DoN user base ▪ NMCI Implementation Plan, dated October 2001 ▪ BLII & IT21 user statistics	N8 – CDR Dollan
Industry ▪ Software vendors ▪ State and local government	N6/N7 – Corey Beckett
	Previous project implementations across industry and government
	Defense Acquisition University

Timeline and Products



Steps and Tiger Team Time Products

X **1. Define Common Applications Services and Enterprise Services**
- What is the scope?

X **2. Capture Current Environment**
- What current initiatives are underway and what future initiatives have been identified?

X **3. Capture Functions Accomplished by Current Efforts**
- How do the initiatives tie back to vision and strategic guidance?

X **4. Anticipate Changes in the Future Environment**
- How is the environment going to change that would impact corporate services? e.g. roll-out of FORCEnet and GES capabilities

5. Capture Expected Functions for the Future Environment
- What are new set of initiatives that need to be considered?

X **6. Conduct Review**
- What is the Tiger Team's prioritization of these initiatives?

X **7. Estimate Pricing for Future Functions**
- How much are the initiatives going to cost?

✓ **8. Review Final Packet**
- Do the POM-06 submissions make sense?

- **Scope, definitions, and assumptions**
- **List of known current and future initiatives**
- **Mapping of identified initiatives to vision and strategic guidance**
- **List of enterprise/joint initiatives and their environmental impacts**
- **List of newly identified initiatives and mapping to the associated vision and strategic guidance**
- **Prioritization criteria and prioritized list of initiatives**
- **Price estimate of each initiative**
- **NMCI Corporate Services POM-06 Submission**

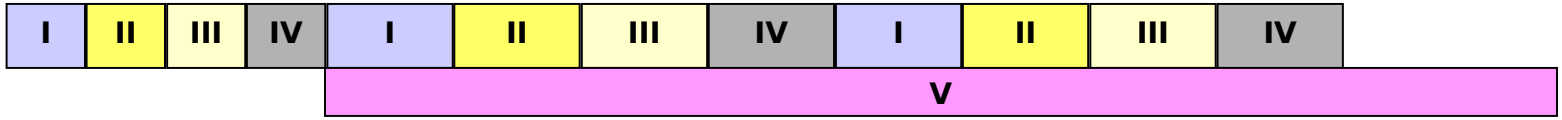
Pricing Objectives and Scope

- **Obtain reasonable cost estimates for Core Enterprise Services identified by the POM-06 Tiger Team**
  - Initial pricing effort is subject to a very ambitious timeline
    - Kicked off only 5 weeks ago
  - Pricing model produces high-level, yet defendable POM submission
- **Each capability will be priced out based on a Spiral Development Approach with four implementation phases for each *Spiral***
  - Phase I: Initial project planning, requirements process, existing efforts analysis
  - Phase II: Initial capability development, proof-of-concept, etc.
  - Phase III: Full scale capability development and initial/pilot deployment
  - Phase IV: Full scale deployment (phased approach)
  - Phase V: Capability Maturity and Lifecycle Management period (annual recurring cost - this phase will overlap across the spirals)

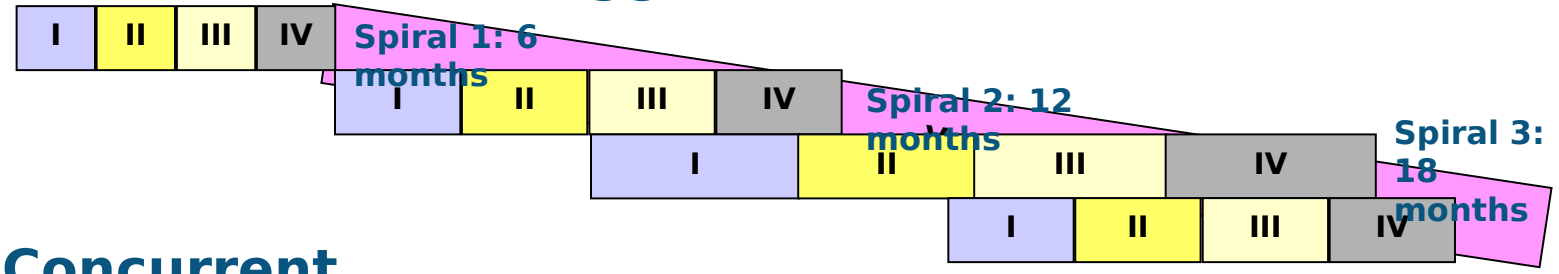
Deployment Options

Spiral Development allows multiple deployment options

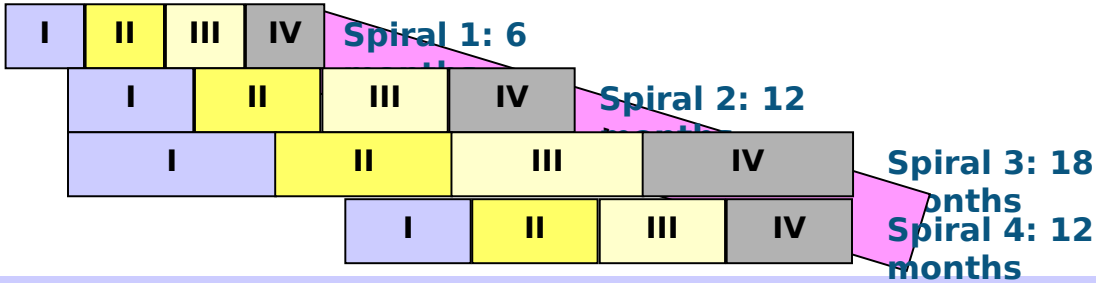
Sequential



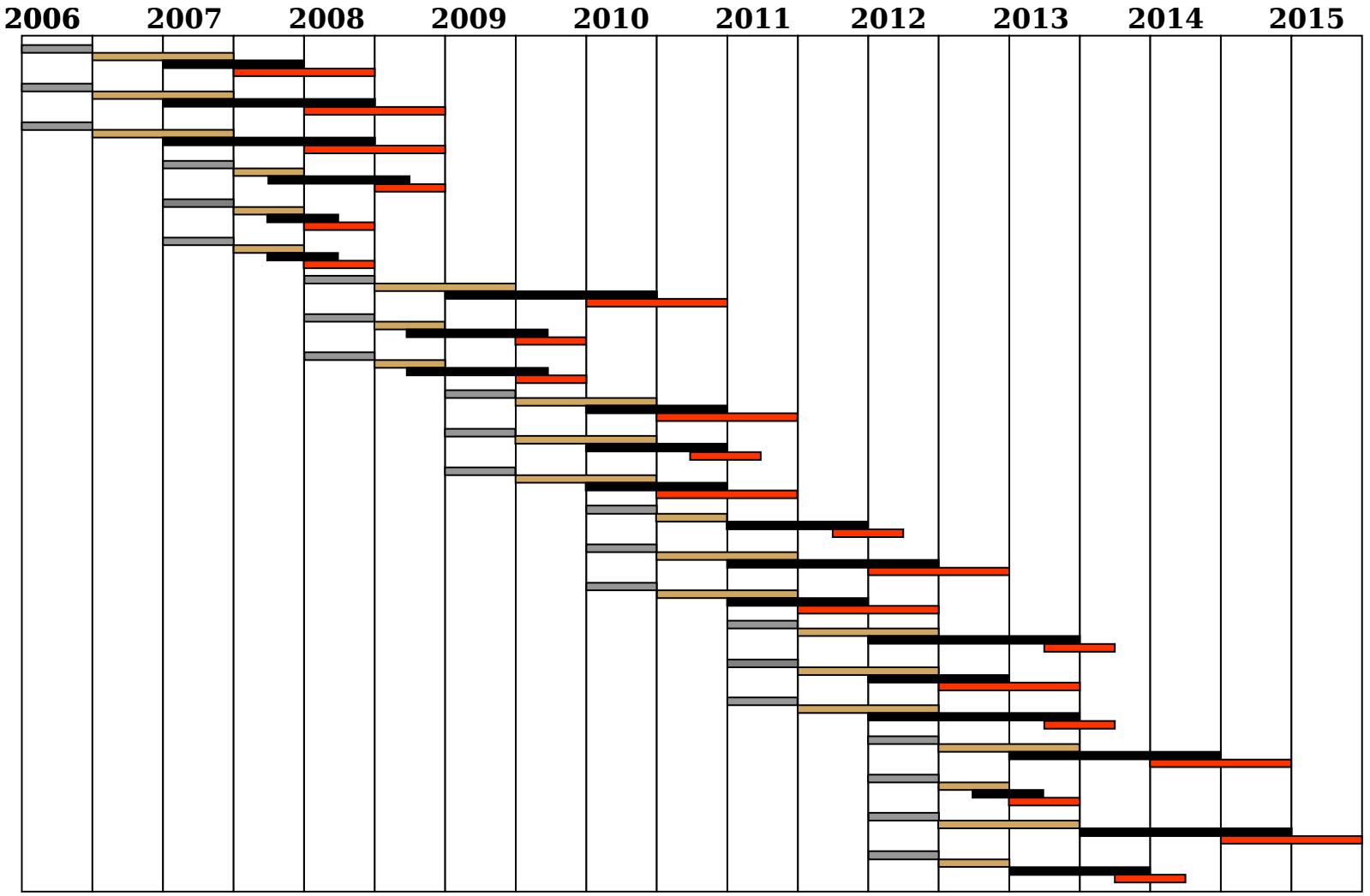
Concurrent and Staggered



Concurrent

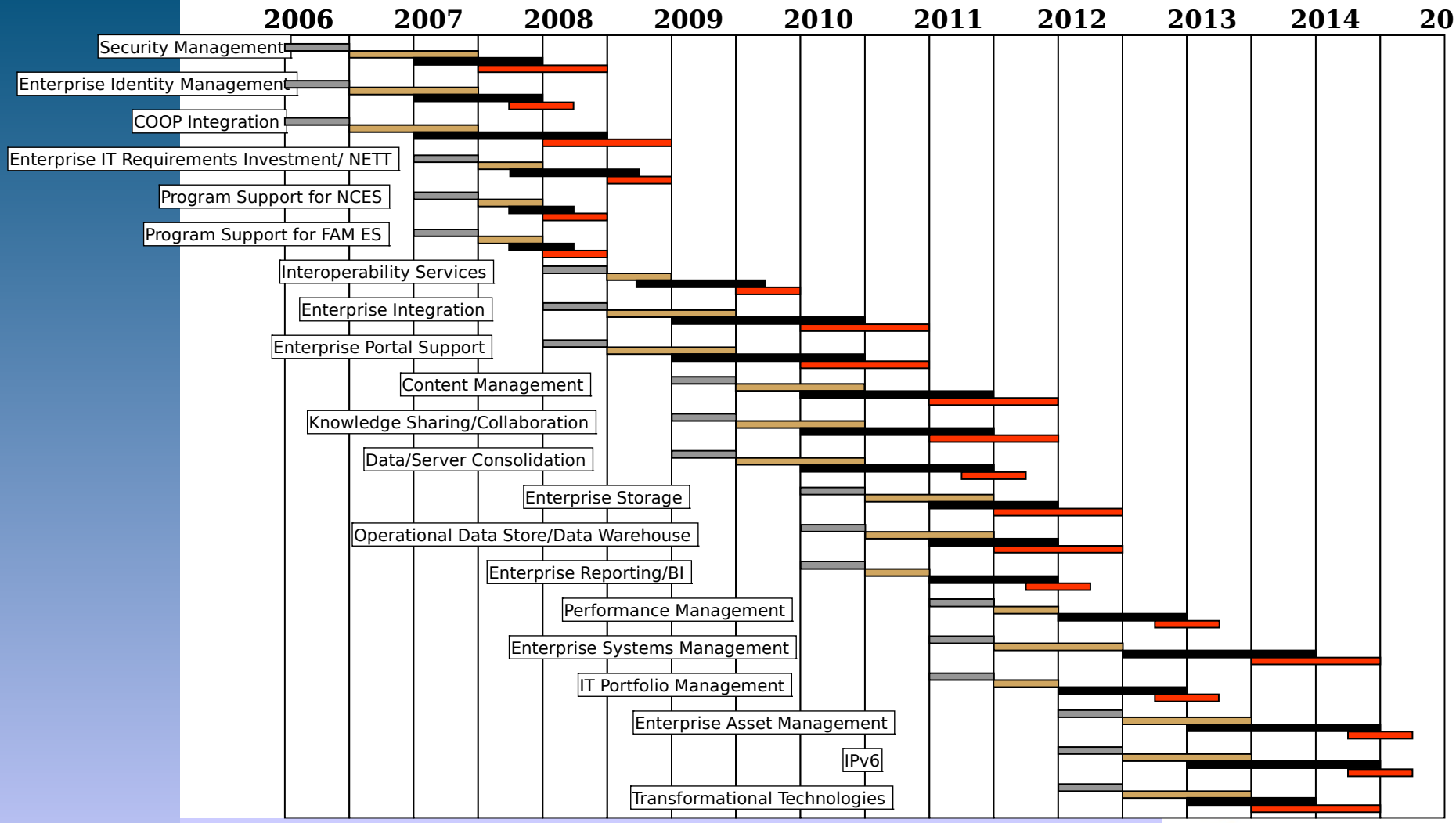


Notional Implementation Schedule



Spiral 1 | Spiral 2 | Spiral 3 | Spiral 4

Notional Implementation Schedule



Spiral 1 **Spiral 2** **Spiral 3** **Spiral 4**

Spiral & Phase Assumptions

Percent of total deployed within a spiral (builds incrementally)

Spiral 1	Spiral 2	Spiral 3	Spiral 4
10%	40%	70%	100%

Spiral Rating Assignments

Rating	Spiral Duration (months)	Resources	Cost (millions)
L	6	25	$2.5
M	12	25	$5
H	18	50	$15
VH	24	100	$40

Level of Effort for each phase within a spiral

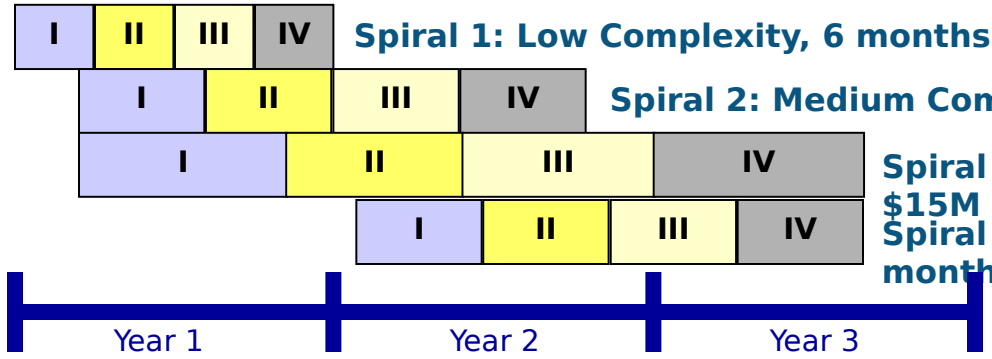
Phase 1	Phase 2	Phase 3	Phase 4
25%	20%	15%	40%

Resource Cost Estimate Model

The resource cost per initiative will be estimated based on projected complexity and duration of each spiral

Complexity Rating	Required Resource (FTEs)	Spiral Resource Cost
Low	25	$2,500,000
Medium	25	$5,000,000
High	50	$15,000,000
Very High	100	$40,000,000

Notional Example – Resources for Full Implementation



Spiral 1: Low Complexity, 6 months, $2.5M

Spiral 2: Medium Complexity, 12 months, $5M

Spiral 3: High Complexity, 18 months, $15M

Spiral 4: Medium Complexity, 12 months, $5M

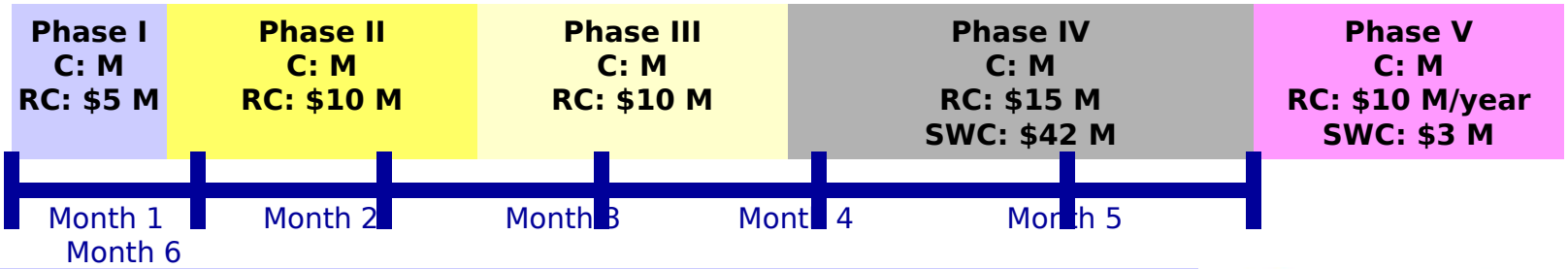
Additional 20% cost for annual maintenance = $5.5M

Software Cost Estimate Model

The Software costs estimated based on the following approach

- All software costs are included in Implementation Phase Four – Deployment
- Software vendors were selected via Gartner Group recommendations, then priced via GSAAdvantage.gov
- Costs are an average of multiple vendor fees obtained from GSA
- Where Phase Four spans multiple years, renewal fees are built into the overall cost (average - 18% license cost/actual SW renewal fee)
- Phase Five includes a SW renewal fee to demonstrate ongoing

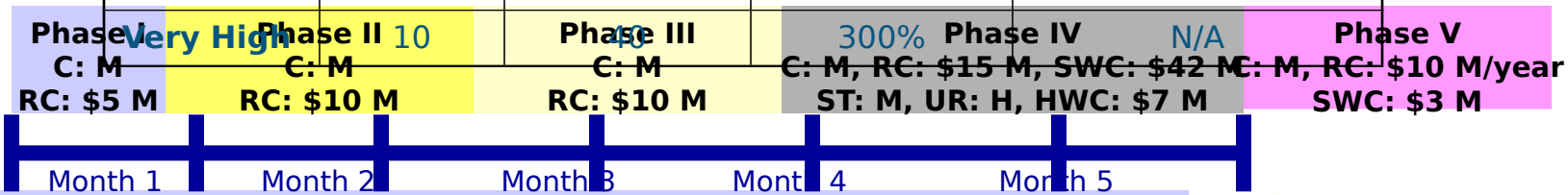
Spirals	Spiral 1	Spiral 2	Spiral 3	Spiral 4
Percentage (incrementally)	10%	40%	70%	100%
Actual Population (of 416,000 users)	41,600	166,400	291,200	416,000



Hardware Cost Estimate Model

- **The Hardware cost per initiative will be estimated based on**
  - Projected user base
  - Concurrent users
  - HW requirements of the software product
  - Installation distribution
  - Storage requirement
- **Impact to Spiral**
  - Spiral 1 will consist of one installation site (one NOC)

Server Type	# Servers	# Install Sites	Storage Cost	Individual Server Cost
Very Low	2	1	N/A	N/A
Low	4	4	50%	$24,000
Medium	6	9	100%	$133,000
High	8	20	200%	$828,100
Very High	10	40	300%	N/A



User Population Estimates

Previous User Estimations

- User population statistics obtained from NMCI, BLII and IT21

Program	Users
NMCI	336,000
BLII	30,000
IT-21	50,000
Reserves	?

DoD user population statistics

- Includes active duty and civilian employees
- Does NOT include reservists

Program	Personnel
Navy	383,000
USMC	179,000
Civilian Employees	186,000
TOTAL	748,000

Additional statistics that include contractors, reservists, and personnel staffed at Joint Commands have the number potentially as high as 1,001,013

Content Management

- **Content Management**
  - Managing the creation, modification, and removal of content. More specifically, used to categorize, index, store, search for, and retrieve specific, relevant data, information, or knowledge.
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
      - Exploit emerging IT to achieve information dominance
      - Proactively encourage the creation and sharing of knowledge to enable effective, timely, and agile decision-making
      - Maximize the contribution of knowledge and information technology, process improvement and innovation, and technology infusion to increase mission readiness and enhance organizational effectiveness and efficiency.
      - Facilitate global access to Naval libraries and information for all personnel
      - Implement knowledge management and eGov strategies to facilitate collaboration and sharing in order to optimize strategic and tactical decisions and result in more effective and efficient mission performance
      - Develop “communities of practice and interest” to facilitate innovation and knowledge transfer

Content Management

- **Content Management (cont.)**
  - Mapping to Strategy (cont.)
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
    - POM06 FORCEnet Capabilities List
      - Provide network synchronization
  - Mapping to ES FAM Taxonomy
    - 01.03. Administer Content Management
    - 02.01.02. View/ Play Enterprise Content
    - 02.01.02.01. View Content- Documents
    - 02.01.02.02. View Content- Images
    - 02.01.02.03. View/ Play Content- Video/Audio
    - 02.01.03. Manage Enterprise Content
    - 02.01.03.01. Manage Integrated Document and Web Content
    - 02.01.03.01.01. Provide Document Access/ Version Control
    - 02.01.03.01.02. Retrieve Documents

Continuity of Operations Planning (COOP)

- **Crisis Recovery**
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - -Ensure information resources and critical infrastructures are secure and protected
      - -Ensure reliability and availability of information systems while guarding the privacy of personnel by implementing critical infrastructure protection measures.
      - -Implement plans, policy, and architecture to protect information infrastructure
      - -Manage risk and provide for contingency and continuity of operations for information infrastructure, Web-enabled applications, and consolidated legacy systems
    - POM06 FORCEnet Capabilities List
      - -Provide network protection
  - Mapping to ES FAM Taxonomy
    - 01.05.07. Provide and Track Back-up/ Storage Management Tools

Continuity of Operations Planning (COOP)

- **Planning, design, hardware, software, and technical support for Network COOP**
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - -Ensure information resources and critical infrastructures are secure and protected
      - -Ensure reliability and availability of information systems while guarding the privacy of personnel by implementing critical infrastructure protection measures
      - -Implement plans, policy, and architecture to protect information infrastructure
      - -Ensure the availability and protection of the physical and information infrastructure
      - -Manage risk and provide for contingency and continuity of operations for information infrastructure, Web-enabled applications, and consolidated legacy systems
      - -Ensure the security and reliability of information assets with joint forces and coalition partners
    - POM06 FORCEnet Capabilities List
      - -Provide network protection
  - Mapping to ES FAM Taxonomy
    - 01.05.07. Provide and Track Back-up/ Storage Management Tools
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.02.01.01. Develop Operational Architectures
    - 01.02.01.02. Develop System Architectures
    - 01.02.01.03. Develop Technical Architectures

Continuity of Operations Planning (COOP)

- **Technical guidance and direction to provide for Enterprise system continuity of operations infrastructure and procedure**
  - Mapping to Strategy
    - POM06 FORCEnet Capabilities List
      - Provide network protection
  - Mapping to ES FAM Taxonomy
    - 01.05.07. Provide and Track Back-up/ Storage Management Tools

Data/Server Consolidation

- **Application Hosting**
  - A capability that provides business applications/services hosting by supplying required HW, SW, infrastructure, and facility.
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Proactively encourage the creation and sharing of knowledge to enable effective, timely, and agile decision-making
      - Implement an enterprise data management architecture that facilitates the single data entry point for and accessible by the entire DoN
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Provide an interoperable IT infrastructure that ensures knowledge superiority

Data/Server Consolidation

- **Application Hosting (cont.)**
  - Mapping to Strategy
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    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
  - Mapping to ES FAM Taxonomy
    - 01.02.02. Provide Data Management Processes and Tools
    - 01.05.20. Provide and Track Systems Administration Tools
    - 01.05.22. Provide and Track Groupware Tools

Data/Server Consolidation

- **Data Hosting**
  - The management of all data/information in an organization. It includes data administration, the standards for defining data, and the management of data to ensure it is accurate, accessible, non-redundant, consistent, flexible, and secure.
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Proactively encourage the creation and sharing of knowledge to enable effective, timely, and agile decision-making
      - Implement an enterprise data management architecture that facilitates the single data entry point for and accessible by the entire DoN
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Provide an interoperable IT infrastructure that ensures knowledge superiority

Data/Server Consolidation

- **Data Hosting (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.02.02. Provide Data Management Processes and Tools
    - 01.02.02.01. Develop Data Architecture and Standards
    - 01.02.02.02.01. Develop Functional Data Models
    - 01.02.02.02.02. Develop Data Standards
    - 01.02.04. Manage Standards, Development, and Implementation
    - 01.05.24. Provide and Track DON Systems IT Data Collection Tools

Enterprise Asset Management

- **Enterprise Asset Management**
  - A formal, comprehensive process for tracking of hardware and software assets, software licenses, equipment contracts and leases, and networks.
  - Mapping to Strategy
    - Sea Power 21
      - Replace outdated, and redundant legacy systems with more capable systems
    - Clinger Cohen Act
      - Streamline IT acquisitions and emphasize life cycle management of IT as a capital investment across the federal government
      - Redesign the processes that the system supports to reduce costs, improve effectiveness and maximize the use of COTS technology
      - Ensure that performance measurements are prescribed for IT by or to be acquired for, the agency and that they measure how well the IT supports agency programs
      - Inventory all computer equipment and maintain an inventory of any such equipment that is excess or surplus property

Enterprise Asset Management

- **Enteprise Asset Management (cont.)**
  - Mapping to Strategy (cont.)
    - DoN IM/IT Strategic Plan 2002/2003
      - Facilitate Enterprise-wide strategic planning processes to guide IM/IT activities
      - Eliminate redundant legacy systems to improve processes
    - Sea Power 21
      - Sea Enterprise
        - Seek to improve organizational alignment, refine requirements, and reinvest savings to buy the platforms and systems needed
        - Retire outdated legacy systems and platforms
        - Develop an integrated Navy Enterprise Resource Planning campaign plan that maps legacy infrastructure and retires selected systems to capture savings
  - Mapping to ES FAM Taxonomy
    - 01.05.19. Provide and Track Asset Management Tools

Enterprise Identity Management

- **Included Tiger Team Initiatives**
  - Identity Management/Account Administration
  - PKI-CAC
  - GAL & NGDS
  - Command identification, location and process mapping information management system
- **Identity Management/Account Administration**
  - Navy and Marine Corps need a single system by which to effectively track and log NMCI and other network accounts.
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Implement an enterprise data management architecture that facilitates the single data entry point for and accessible by the entire DoN
      - Ensure reliability and availability of information systems while guarding the privacy of personnel by implementing critical infrastructure protection measures.
      - Provide secure authentication by implementing Public Key Infrastructure (PKI) and issuing digital certificates and DoD common access cards to all personnel
      - Develop and implement policies to protect privacy rights of personnel

Enterprise Identity Management

- **Identity Management/Account Administration (cont.)**
  - Mapping to Strategy (cont.)
    - N6/N7 Top 9 Issues
      - Global Access List (GAL) and Account Access Administration
        - Requirement to administer accounts across Navy Networks such that users can get access to their information from any Navy Network
        - The management, replication, and synchronization of access lists and directories within and across Navy Networks is essential for seamless control of Navy information
      - User Access and Verifiable ID
        - Outlook Web Access (OWA)
        - Secure Web Access (SWA): remote access to information contained within Navy network enclaves
        - Digital ID process and access
  - Mapping to ES FAM Taxonomy
    - 01.02.02.02. Develop Data Architecture and Standards
    - 01.03.01.01. Manage Organizational Knowledge
    - 01.03.01.01.01. Search and Retrieve Data
    - 01.03.01.01.02. Organize and Display Information
    - 02.01.03.01.02. Retrieve Documents
    - 02.01.03.02. Manage Electronic Records/ Archiving
    - 02.01.05. Manage Personal Information

Enterprise Identity Management

- **Identity Management/Account Administration (cont.)**
  - IT Summit Working Group Integration
    - Core Enterprise Services: Account Administration
    - Core Enterprise Services: Naval Network Identity

Enterprise Identity Management

- **PKI-CAC**
  - A form of asymmetric encryption (i.e., the encoding key and decoding key are different)
  - Mapping to Strategy
    - DoD PKI Policy
      - A standard, integrated, and interoperable DoD PKI will be a very important function of Defense-in-Depth as it aligns to provide a wide-range of IA capabilities across the DoD
    - POM06 FORCEnet Capabilities List
      - Provide network protection
    - DoN IM/IT Strategic Plan 2002/2003
      - Ensure information resources and critical infrastructures are secure and protected
      - Ensure reliability and availability of information systems while guarding the privacy of personnel by implementing critical infrastructure protection measures.
      - Implement plans, policy, and architecture to protect information infrastructure
      - Ensure the availability and protection of the physical and information infrastructure
      - Provide secure authentication by implementing Public Key Infrastructure (PKI) and issuing digital certificates and DoD common access cards to all personnel
      - Develop and implement policies to protect privacy rights of personnel
      - Ensure the security and reliability of information assets with joint forces and coalition partners
      - Partner with Federal Bridge Certification Authority to ensure interoperability among DoN and other Federal agency PKI domains

Enterprise Identity Management

- **PKI-CAC (cont.)**
  - Mapping to Strategy (cont.)
    - N6/N7 Top 9 Issues
      - Watchstander and Visitor Access
        - » Requirement for automated watchstander network access via a Personal Key Infrastructure (PKI) and Common Access Card (CAC) for required watchstations.
        - » Requirement for User Access and Verifiable ID: Outlook Web Access (OWA), Secure Web Access (SWA): remote access to information contained within Navy network enclaves, Digital ID process and access
  - Mapping to ES FAM Taxonomy
    - 01.05.17. Provide and Track Security Software Tools
    - 03.09.03. Manage Information Security
  - IT Summit Working Group Integration
    - Core Enterprise Services: PKI-CAC

Enterprise Identity Management

- **GAL & NGDS**
  - An enterprise solution that will provide the capability to store and retrieve information related to people, organizations, applications, and network components
  - Mapping to Strategy
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
    - POM06 FORCEnet Capabilities List
      - Provide information transfer
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Implement an enterprise data management architecture that facilitates the single data entry point for and accessible by the entire DoN
      - Facilitate global access to Naval libraries and information for all personnel
    - N6/N7 Top 9 Issues
      - Global Access List (GAL) and Account Access Administration
        - » Requirement to administer accounts across Navy Networks such that users can get access to their information from any Navy Network.
        - » The management, replication, and synchronization of access lists and directories within and across Navy Networks is essential for seamless control of Navy information

Enterprise Identity Management

- **GAL & NGDS (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.02.02.02. Develop Data Architecture and Standards
    - 01.03.01.01. Manage Organizational Knowledge
    - 01.03.01.01.01. Search and Retrieve Data
    - 01.03.01.01.02. Organize and Display Information
    - 02.01.03.01.02. Retrieve Documents
    - 02.01.03.02. Manage Electronic Records/ Archiving
    - 02.01.05. Manage Personal Information
  - IT Summit Working Group Integration
    - Core Enterprise Services: NGDS
    - Core Enterprise Services: Naval Network Identity

Enterprise Identity Management

- **Command identification, location and process mapping information management system**
  - An accurate authoritative information management system with an organization's position in the chain of command, its organization structure to the office code level, its mailing address, and other defining information all tied to a unique identifier could greatly improve the efficiency of present and future intra-organizational workflow processes.
  - Mapping to Strategy
    - ASN (RDA) Strategic Plan 1999-2004
      - Reduce cost and cycle time for delivering equipment and services to provide products and services faster
      - Improve the efficiencies of internal processes that have a major impact on cycle times
    - DoN IM/IT Strategic Plan 2002/2003
      - Maximize the contribution of knowledge and information technology, process improvement and innovation, and technology infusion to increase mission readiness and enhance organizational effectiveness and efficiency
    - Sea Enterprise
      - Seek to improve organizational alignment
      - Reduce overhead, streamline processes, substitute technology for manpower, and create incentives for positive change

Enterprise Identity Management

- **Command identification, location and process mapping information management system (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.02.01.02. Develop System Architectures
    - 01.02.02.02.02. Develop Data Standards
    - 01.03.01.01. Manage Organizational Knowledge
    - 01.03.01.01.02. Organize and Display Information (Business Intelligence Tools)
    - 03.04.02. Manage Documents

Enterprise Integration

- **Included Tiger Team Initiatives**
  - Application Integration
  - Technical guidance and direction to provide for an application integration center
- **Application Integration**
  - Approach to introducing and implementing IT whereby an integrator provides the entire solution (similar to a prime contractor or systems integrator in the acquisition community) and is, thus, responsible for overall system performance
  - Mapping to Strategy
    - Incomplete
  - Mapping to ES FAM Taxonomy
    - 01.02.02.02. Develop Data Architecture and Standards
    - 01.02.02.02.03. Assess Interoperability
    - 01.02.03.01. Register Systems Applications and Databases
    - 01.05. Manage System Development and Maintenance
    - 01.05.04. Provide Application Integration and Middleware Tools

Enterprise Integration

- **Technical guidance and direction to provide for an application integration center**
  - For the development of seamless integration methodologies and standard development
    - Application development lab
    - Certification and accreditation lab
    - Technology assessment lab
    - New release development and deployment
    - Data migration from early version to next version
    - New Application Authorization Process
    - Application registration and technical/administrative support throughout its lifecycle
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Develop an interoperable information technology architecture to ensure single solutions for common requirements

Enterprise Integration

- **Technical guidance and direction to provide for an application integration center (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.02.02.02. Develop Data Architecture and Standards
    - 01.02.02.02.03. Assess Interoperability
    - 01.02.03.01. Register Systems Applications and Databases
    - 01.05. Manage System Development and Maintenance
    - 01.05.04. Provide Application Integration and Middleware Tools
  - IT Summit Working Group Integration
    - Architecture, Governance, and Policy: Designated Approving Authority Roles and Responsibilities

Enterprise Portal

- **Included Tiger Team Initiatives**
  - Navy-Marine Corps Portal
  - Technical guidance and direction to provide for Web-enabling an application
- **Navy-Marine Corps Portal**
  - Single web site where multiple services and applications are accessed
  - Mapping to Strategy
    - ASN (RDA) Strategic Plan 1999-2004
      - Pursue initiatives to lessen workload on Sailors and Marines
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
      - Sea Enterprise
        - Create a web-based tool that shares best practices leading to cost savings and reductions in overhead

Enterprise Portal

- **Navy-Marine Corps Portal (cont.)**
  - Mapping to Strategy (cont.)
    - DoN IM/IT Strategic Plan 2002/2003
      - Facilitate global access to Naval libraries and information for all personnel
      - Develop and distribute tools and best practices to implement knowledge management and eGov
      - Identify knowledge centers and build repositories to capture and share intellectual capital
      - Deploy a DoN-Enterprise portal as part of NMCI that connects and integrates enterprise knowledge and includes functional area knowledge managers responsible for content
  - Mapping to ES FAM Taxonomy
    - 01.03.02. Provide Portal Management
  - IT Summit Working Group Integration
    - Core Enterprise Services: Portal Convergence

Enterprise Portal

- **Technical guidance and direction to provide for Web-enabling an application**
  - Mapping to Strategy
    - Naval Transformation Roadmap/FORCEnet
      - Provide a web-enabled Navy allowing collaborative planning and execution, facilitated by NMCI ashore and IT-21 shipboard networks
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Develop and implement the operational systems and technical architectures required to Web-enable the DoN
      - Apply Web technologies to implement self-service and transactional methods for business processes
    - N6/N7 Top 9 Issues
      - Web Enablement of Processes
        - » Facilitate network security, user access, sharing of information, and efficient use of network capacity
        - » TF Web was created to assist in this endeavor and has established web enablement standards, which require formal integration into IT development, acquisition, and implementation processes

Enterprise Portal

- **Technical guidance and direction to provide for Web-enabling an application (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.02.02. Provide Data Management Processes and Tools
    - 01.02.02.02.02. Develop Data Standards
    - 01.02.04. Manage Standards, Development, and Implementation
    - 01.05.02. Provide Software Development Tools
    - 01.05.04. Provide Application Integration and Middleware Tools

Enterprise Reporting

- **Included Tiger Team Initiatives**
  - Reporting/Business Intelligence
- **Reporting/Business Intelligence**
  - A centralized comprehensive repository for formatting, capturing and distributing enterprise information; this information can be used for measuring performance and is an enabler for Enterprise Performance Management
  - Mapping to Strategy
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Infuse advanced IT into warfighting and business processes. Process improvement coupled with innovation and technology infusion will increase mission readiness and enhance organizational effectiveness and efficiency
    - Clinger Cohen Act
      - Ensure that performance measurements are prescribed for IT by or to be acquired for, the agency and that they measure how well the IT supports agency programs

Enterprise Reporting

- **Reporting/Business Intelligence (cont.)**
  - Mapping to Strategy (cont.)
    - DoN IM/IT Strategic Plan 2002/2003
      - Implement knowledge management and eGov strategies to facilitate collaboration and sharing in order to optimize strategic and tactical decisions and result in more effective and efficient mission performance
      - Identify knowledge centers/ build repositories to capture and share intellectual capital
      - Maximize the contribution of knowledge and information technology, process improvement and innovation, and technology infusion to increase mission readiness and enhance organizational effectiveness and efficiency.
      - Implement Enterprise-wide strategic planning processes to guide IM/IT activities
      - Develop and implement a performance measurement strategy to assess the contribution of IM/IT initiatives
    - Sea Power 21
      - Sea Enterprise
        - » Seeks to improve organizational alignment, refine requirements, and reinvest savings to buy the platforms and systems needed
        - » Develop an integrated Navy Enterprise Resource Planning campaign plan that maps legacy infrastructure and retires selected systems to capture savings
  - Mapping to ES FAM Taxonomy
    - 01.03.01.01.02. Organize and Display Information (Business Intelligence Tools)
    - 02.01.03.03. Manage and Distribute Report Data
    - 02.01.04.02. Produce and Manipulate Reports
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.05.24. Provide and Track DON Systems IT Data Collection Tools

Enterprise Storage

- **Included Tiger Team Initiatives**
  - Shared File Policy/ Actions
- **Shared File Policy/Actions**
  - The ability to provide file-sharing mechanisms within organizations as well as across the Echelon IIs, Claimants, Commands and Fleets.
  - Mapping to Strategy
    - ASN (RDA) Strategic Plan 1999-2004
      - Pursue initiatives to lessen workload on Sailors and Marines
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
    - POM06 FORCEnet Capabilities List
      - Provide information transfer

Enterprise Storage

- **Shared File Policy/Actions (cont.)**
  - Mapping to Strategy (cont.)
    - DoN IM/IT Strategic Plan 2002/2003
      - Maximize the contribution of knowledge and information technology, process improvement and innovation, and technology infusion to increase mission readiness and enhance organizational effectiveness and efficiency.
      - Facilitate global access to Naval libraries and information for all personnel
      - Implement knowledge management and eGov strategies to facilitate collaboration and sharing in order to optimize strategic and tactical decisions and result in more effective and efficient mission performance
      - Develop “communities of practice and interest” to facilitate innovation and knowledge transfer
      - Develop and distribute tools and best practices to implement knowledge management and eGov
      - Identify knowledge centers and build repositories to capture and share intellectual capital
  - Mapping to ES FAM Taxonomy
    - 01.03.01. Provide Knowledge Management
    - 01.03.01.01 Manage Organizational Knowledge
    - 01.03.01.01.01. Search and Retrieve Data (Search Tools)
    - 01.03.01.01.02. Organize and Display Information
  - IT Summit Working Group Integration
    - Core Enterprise Services: Shared File Policy

Enterprise Systems Management

- **Included Tiger Team Initiatives**
  - Planning, design, hardware, software, and technical support for Boundary interface control specifications for domains, WANs, BANs, and LANs
  - Planning, design, hardware, software, and technical support for Network operating systems
- **Planning, design, hardware, software, and technical support for Boundary interface control specifications for domains, WANs, BANs, and LANs**
  - Mapping to Strategy
    - Incomplete
  - Mapping to ES FAM Taxonomy
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.02.01.01. Develop Operational Architectures
    - 01.02.01.02. Develop System Architectures
    - 01.02.01.03. Develop Technical Architectures
    - 01.02.02.02. Develop Data Architecture and Standards
    - 01.02.02.02.03. Assess Interoperability

Enterprise Systems Management

- **Planning, design, hardware, software, and technical support for Network operating systems**
  - Mapping to Strategy
    - Incomplete
  - Mapping to ES FAM Taxonomy
    - 01.05.18. Provide and Track Host/ Server Operating Systems
    - 01.05.21. Provide and Track Utility/ OS Support Tools
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.02.01.01. Develop Operational Architectures
    - 01.02.01.02. Develop System Architectures
    - 01.02.01.03. Develop Technical Architectures
    - 01.02.02.02.03. Assess Interoperability

IT Portfolio Management

- **Included Tiger Team Initiatives**
  - Application Portfolio Management Information Center
  - Enterprise Application Portfolio Management processes and tools
- **Application Portfolio Management Information Center**
  - Provide direct support to all Application Portfolio Management participants
    - FAM support
    - CDA, EII, CTR support
    - PMO, PEO-IT
    - Support to BPR and efforts
    - Support to business case analysis efforts
  - Mapping to Strategy
    - Clinger Cohen Act
      - Streamline IT acquisitions and emphasize life cycle management of IT as a capital investment across the federal government
      - Ensure that performance measurements are prescribed for IT by or to be acquired for, the agency and that they measure how well the IT supports agency programs
      - Inventory all computer equipment and maintain an inventory of any such equipment that is excess or surplus property
    - ASN (RDA) Strategic Plan 1999-2004
      - Reduce cost and cycle time for delivering equipment and services to provide products and services faster
      - Increase integration of the requirements, resources, and acquisition communities in the acquisition process

IT Portfolio Management

- **Application Portfolio Management Information Center (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.02.03. Provide Portfolio Management Processes and Tools
    - 01.02.03.01. Register Systems Applications and Databases
    - 01.02.03.02. Develop FAM Portfolios

IT Portfolio Management

- **Enterprise Application Portfolio Management processes and tools**
  - Provides the ability to manage the organization's portfolio of IT projects and investments to align them with business strategic goals and may include
    - Application Rationalization And Review Process
    - Application to Functional Requirement Mapping Process
    - Application to Functional Data Mapping Process and support tool
    - Application Management and Decision support tools
  - Dir. NMCI office is currently fielding requests at mid-year to fund applications reduction and NADTF support
  - Mapping to Strategy
    - ASN (RDA) Strategic Plan 1999-2004
      - Optimize ROI by investing in initiatives that produce largest reductions in TOC over the lifecycle of the system
    - CNO Guidance for 2003
      - Develop equipment and system replacement schedules to achieve manpower, operations, and support infrastructure savings
      - Develop an integrated ERP campaign that maps legacy infrastructure and retires selected systems to capture savings

IT Portfolio Management

- **Enterprise Application Portfolio Management processes and tools (cont.)**
  - Mapping to Strategy (cont.)
    - Sea Power 21
      - Sea Enterprise
        - » Seek to improve organizational alignment, refine requirements, and reinvest savings to buy the platforms and systems needed
        - » Retire outdated legacy systems and platforms
        - » Develop an integrated Navy Enterprise Resource Planning campaign plan that maps legacy infrastructure and retires selected systems to capture savings
    - DoN IM/IT Strategic Plan 2002/2003
      - Eliminate redundant legacy systems to improve processes
    - Clinger Cohen Act
      - Streamline IT acquisitions and emphasize life cycle management of IT as a capital investment across the federal government
      - Redesign the processes that the system supports to reduce costs, improve effectiveness and maximize the use of COTS technology

Performance Management

- **Included Tiger Team Initiatives**
  - Performance Management
  - Technical guidance and direction to facilitate Performance Management
- **Performance Management**
  - Various programs intended to help management in strategic and operational planning and monitoring and making strategic and operational decisions; furthermore, assisting analysts and knowledge workers in doing domain-specific analysis.
  - Mapping to Strategy
    - Sea Power 21
      - Sea Enterprise
        - » Seek to improve organizational alignment, refine requirements, and reinvest savings to buy the platforms and systems needed
        - » Reduce overhead, streamline processes, substitute technology for manpower, and create incentives for positive change
        - » Develop an integrated Navy Enterprise Resource Planning campaign plan that maps legacy infrastructure and retires selected systems to capture savings
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Infuse advanced IT into warfighting and business processes. Process improvement coupled with innovation and technology infusion will increase mission readiness and enhance organizational effectiveness and efficiency

Performance Management

- **Performance Management (cont.)**
  - Mapping to Strategy (cont.)
    - DoN IM/IT Strategic Plan 2002/2003
      - Maximize the contribution of knowledge and information technology, process improvement and innovation, and technology infusion to increase mission readiness and enhance organizational effectiveness and efficiency
      - Facilitate Enterprise-wide strategic planning processes to guide IM/IT activities
      - Assess the result of ERP pilots and implement where appropriate in DoN
      - Develop and implement a performance measurement strategy to assess the contribution of IM/IT initiatives
      - Maximize the value and manage the risk associated with IT investments
      - Foster and incentivize a technology-enabled and information-rich culture
      - Implement knowledge management and eGov strategies to facilitate collaboration and sharing in order to optimize strategic and tactical decisions and result in more effective and efficient mission performance
      - Develop and distribute tools and best practices to implement knowledge management and eGov
      - Identify knowledge centers and build repositories to capture and share intellectual capital

Performance Management

- **Performance Management (cont.)**
  - Mapping to Strategy (cont.)
    - POM06 FORCEnet Capabilities List
      - Provide network synchronization
    - Clinger Cohen Act
      - Redesign the processes that the system supports to reduce costs, improve effectiveness and maximize the use of COTS technology
      - Ensure that performance measurements are prescribed for IT by or to be acquired for, the agency and that they measure how well the IT supports agency programs
    - ASN (RDA) Strategic Plan 1999-2004
      - Reduce cost and cycle time for delivering equipment and services to provide products and services faster
      - Promote acquisition reform initiatives that reduce cost and cycle times
      - Improve the efficiencies of internal processes that have a major impact on cycle times
  - Mapping to ES FAM Taxonomy
    - 01.01.01. Conduct Strategic Planning
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.02.03. Provide Portfolio Management Process and Tools
    - 01.05.24. Provide and Track DON Systems IT Data Collection Tools

Performance Management

- **Technical guidance and direction to facilitate Performance Management**
  - Tracking multiple forms of performance (financial, operational, etc.) to assist in analysis and strategic planning
  - Mapping to Strategy
    - ASN (RDA) Strategic Plan 1999-2004
      - Reduce cost and cycle time for delivering equipment and services to provide products and services faster
      - Promote acquisition reform initiatives that reduce cost and cycle times
      - Improve the efficiencies of internal processes that have a major impact on cycle times
    - Sea Enterprise
      - Seek to improve organizational alignment, refine requirements, and reinvest savings to buy the platforms and systems needed
      - Reduce overhead, streamline processes, substitute technology for manpower, and create incentives for positive change
      - Retire outdated legacy systems and platforms
      - Develop an integrated Navy Enterprise Resource Planning campaign plan that maps legacy infrastructure and retires selected systems to capture savings
    - DoN IM/IT Strategic Plan 2002/2003
      - Maximize the contribution of knowledge and information technology, process improvement and innovation, and technology infusion to increase mission readiness and enhance organizational effectiveness and efficiency
      - Implement Enterprise-wide strategic planning process to guide IM/IT activities
      - Develop and implement a performance measurement strategy to assess the contribution of IM/IT initiatives

Performance Management

- **Technical guidance and direction to facilitate Performance Management (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.01.01. Conduct Strategic Planning
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.02.03. Provide Portfolio Management Process and Tools
    - 01.05.24. Provide and Track DON Systems IT Data Collection Tools
  - IT Summit Working Group Integration
    - Enterprise Infrastructure Services: Network Performance

Knowledge Sharing (Collaboration)

- **Included Tiger Team Initiatives**
  - Collaboration/Knowledge Sharing
- **Collaboration/Knowledge Sharing**
  - Use of collaborative tools or applications that enable an organization to share and access information, and to manage knowledge across an organization
  - Mapping to Strategy
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
    - CNO Guidance for 2003
      - Create a web-based tool that shares best practices leading to cost savings and reductions in overhead
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
      - Provide human-centric integration
    - POM06 FORCEnet Capabilities List
      - Provide information transfer

Knowledge Sharing (Collaboration)

- **Collaboration/Knowledge Sharing (cont.)**
  - Mapping to Strategy (cont.)
    - Sea Enterprise
      - Facilitate educational opportunities to teach Naval leaders about executive business management, finance, and information technology
      - Create a web-based tool that shares best practices leading to cost savings and reductions in overhead
    - DoN IM/IT Strategic Plan 2002/2003
      - Deploy a DoN-Enterprise portal as part of NMCI that connects and integrates enterprise knowledge and includes functional area knowledge managers responsible for content
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
      - Exploit emerging IT to achieve information dominance
      - Proactively encourage the creation and sharing of knowledge to enable effective, timely, and agile decision-making
  - Mapping to ES FAM Taxonomy
    - 01.03.01. Provide Knowledge Management
    - 01.03.01.01 Manage Organizational Knowledge
    - 01.03.01.01.01. Search and Retrieve Data (Search Tools)
    - 01.03.01.01.02. Organize and Display Information

Operational Data Store/ Data Warehouse

- **Included Tiger Team Initiatives**
  - Data Warehouse Management/Data Mart Consolidation
- **Data Warehouse Management/Data Mart Consolidation**
  - Consolidating a database, or collection of databases, which are designed to help managers make strategic decisions about their business. Whereas a data warehouse combines databases across an entire enterprise, data marts are usually smaller and focus on a particular subject or department.
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
      - Exploit emerging IT to achieve information dominance
      - Proactively encourage the creation and sharing of knowledge to enable effective, timely, and agile decision-making
      - Facilitate Enterprise-wide strategic planning processes to guide IM/IT activities
      - Develop and implement a performance measurement strategy to assess the contribution of IM/IT initiatives

Operational Data Store/ Data Warehouse

- **Data Warehouse Management/Data Mart Consolidation (cont.)**
  - Mapping to Strategy (cont.)
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Infuse advanced IT into warfighting and business processes. Process improvement coupled with innovation and technology infusion will increase mission readiness and enhance organizational effectiveness and efficiency
    - N6/N7 Top 9 Issues
      - Storage Administration
        - » Determine how to best manage/standardize information storage (network capacity allocated to individual users/groups of users to remotely store data) requirements
  - Mapping to ES FAM Taxonomy
    - 01.05.06. Provide and Track Data Warehousing Tools
    - 01.05.05. Provide and Coordinate Support For/ Track Database Management
    - 01.02.02. Provide Data Management Processes and Tools
    - 01.02.02.01. Develop Data Architecture and Standards
    - 01.02.02.02.01. Develop Functional Data Models
    - 01.02.02.02.02. Develop Data Standards
    - 01.02.04. Manage Standards, Development, and Implementation
    - 01.05.24. Provide and Track DON Systems IT Data Collection Tools
  - IT Summit Working Group Integration
    - Enterprise Infrastructure Services: Server Migration

Security Management

- **Included Tiger Team Initiatives**
  - Planning, design, hardware, software, and technical support for Network security mechanisms
- **Planning, design, hardware, software, and technical support for Network security mechanisms**
  - Firewalls, transport boundaries, VPN encryption, network domains
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Ensure information resources and critical infrastructures are secure and protected
      - Ensure reliability and availability of information systems while guarding the privacy of personnel by implementing critical infrastructure protection measures.
      - Implement plans, policy, and architecture to protect information infrastructure
      - Ensure the availability and protection of the physical and information infrastructure
      - Provide secure authentication by implementing Public Key Infrastructure (PKI) and issuing digital certificates and DoD common access cards to all personnel
      - Develop and implement policies to protect privacy rights of personnel
      - Ensure the security and reliability of information assets with joint forces and coalition partners
      - Partner with Federal Bridge Certification Authority to ensure interoperability among DoN and other Federal agency PKI domains

Security Management

- **Planning, design, hardware, software, and technical support for Network security mechanisms (cont.)**
  - Mapping to Strategy (cont.)
    - DoD PKI Policy
      - A standard, integrated, and interoperable DoD PKI will be a very important function of Defense-in-Depth as it aligns to provide a wide-range of IA capabilities across the DoD
    - POM06 FORCEnet Capabilities List
      - Provide network protection
  - Mapping to ES FAM Taxonomy
    - 01.05.17. Provide and Track Security Software Tools
    - 03.09.03. Manage Information Security
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.02.01.01. Develop Operational Architectures
    - 01.02.01.02. Develop System Architectures
    - 01.02.01.03. Develop Technical Architectures
    - 01.02.02.02. Develop Data Architecture and Standards
    - 01.02.02.02.03. Assess Interoperability

Web Services

- **Included Tiger Team Initiatives**
  - Web Services
  - DoN XML Guide
  - NEADG
- **Web Services**
  - A standardized way of integrating Web-based applications using the XML, SOAP, WSDL and UDDI open standards over an Internet protocol backbone. Allows different applications from different sources to communicate with each other without time-consuming custom coding.
  - Mapping to Strategy
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Develop and implement the operational systems and technical architectures required to Web-enable the DoN
      - Apply Web technologies to implement self-service, transactional methods for business processes

Web Services

- **Web Services (cont.)**
  - Mapping to Strategy (cont.)
    - N6/N7 Top 9 Issues
      - Web Enablement of Processes
        - To facilitate network security, user access, and sharing of information and efficient use of network capacity
  - Mapping to ES FAM Taxonomy
    - 01.02.02. Provide Data Management Processes and Tools
    - 01.02.02.02.02. Develop Data Standards
    - 01.02.04. Manage Standards, Development, and Implementation
    - 01.05.04. Provide Application Integration and Middleware Tools

Web Services

- **DoN XML Guide**
  - Guide for Enterprise-wide usage of XML as an enabling technology to facilitate more efficient data exchanges and economical eBusiness practices, reduce information ambiguity and duplicative work efforts, and cut data exchange life cycle costs
  - Mapping to Strategy
    - DoN XML Vision
      - Guide Processing Management by achieving consistency in XML processing and setting simple protocols across an integrated DoN architecture
      - Fully exploit Extensible Markup Language (XML) as an enabling technology to achieve interoperability in support of maritime information superiority
    - DoN XML Policy
      - Develop an implementation strategy, policies, procedures, guidance, and governance structure for XML across the DoN
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Develop an interoperable information technology architecture to ensure single solutions for common requirements
      - Develop and implement the operational systems and technical architectures required to Web-enable the DoN
    - ASN (RDA) Strategic Plan 1999-2004
      - Provide effective, reliable, affordable, and interoperable systems
      - Facilitate interoperability among existing IT investments

Web Services

- **DoN XML Guide**
  - Guide for Enterprise-wide usage of XML as an enabling technology to facilitate more efficient data exchanges and economical eBusiness practices, reduce information ambiguity and duplicative work efforts, and cut data exchange life cycle costs
  - Mapping to Strategy
    - DoN XML Vision
      - Guide Processing Management by achieving consistency in XML processing and setting simple protocols across an integrated DoN architecture
      - Fully exploit Extensible Markup Language (XML) as an enabling technology to achieve interoperability in support of maritime information superiority
    - DoN XML Policy
      - Develop an implementation strategy, policies, procedures, guidance, and governance structure for XML across the DoN
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Develop an interoperable information technology architecture to ensure single solutions for common requirements
      - Develop and implement the operational systems and technical architectures required to Web-enable the DoN
    - ASN (RDA) Strategic Plan 1999-2004
      - Provide effective, reliable, affordable, and interoperable systems
      - Facilitate interoperability among existing IT investments

Web Services

- **DoN XML Guide (cont.)**
  - Mapping to ES FAM Taxonomy
    - 01.02.02. Provide Data Management Processes and Tools
    - 01.02.02.02.02. Develop Data Standards
    - 01.02.04. Manage Standards, Development, and Implementation
    - 01.05.02. Provide Software Development Tools
    - 01.05.04. Provide Application Integration and Middleware Tools

Web Services

- **NEADG Navy Enterprise Application Developers Guide**
  - "How to" book for application owners and developers
  - Mapping to Strategy
    - ASN (RDA) Strategic Plan 1999-2004
      - Provide effective, reliable, affordable, and interoperable systems
      - Facilitate interoperability among existing IT investments
    - DoN XML Vision
      - Guide Processing Management by achieving consistency in XML processing and setting simple protocols across an integrated DoN architecture
    - DoN XML Policy
      - Develop an implementation strategy, policies, procedures, guidance, and governance structure for XML across the DoN
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
        - » Develop an interoperable information technology architecture to ensure single solutions for common requirements
  - Mapping to ES FAM Taxonomy
    - 01.05. Manage Systems Development and Maintenance
    - 01.05.02. Provide Software Development Tools
    - 01.05.04. Provide Application Integration and Middleware Tools
  - IT Summit Working Group
    - Enterprise Application and Data Services: Application Development Guide

Transformational Technologies

- **The enterprise architecture that describes the overall structure, logical components, and the logical interrelationships of wireless applications to the overall enterprise.**
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Facilitate the rapid transition and application of technology innovations to improve mission performance
      - Encourage bottom-up initiative and develop pilot projects to assess the applicability and utility of next generation wireless and other emerging technologies
    - N6/N7 Top 9 Issues
      - Wireless
        - » In order to ensure secure access to Navy information, and enterprise approach for this capability in the infrared and radio frequency environments must be developed and implemented.
  - Mapping to ES FAM Taxonomy
    - 01.05.09. Provide and Track Remote Access Tools
  - IT Summit Working Group Integration
    - Architecture, Governance, and Policy: OWA/SWA Broadband Access
    - Architecture, Governance, and Policy: Wireless LAN Implementation

Enterprise Infrastructure Improvement

- **Enterprise Addressing Structure**
  - Maintain addressing structure for networks, components, and users within an architecture that permits efficient exchange of information among the DON operating domains; includes enterprise planning for IPv6.
  - Impact if not installed: Domain addressing structures would lack an efficient framework; IPv6 architecture planning may not be optimized and this will degrade packet exchange among domains.
  - Mapping to Strategy
    - DoN IM/IT Strategic Plan 2002/2003
      - Develop, implement, operate, govern, and continually upgrade a global information infrastructure to provide transparent and seamless interoperability and end-to-end connectivity
      - Develop an interoperable information technology architecture to ensure single solutions for common requirements

Enterprise Infrastructure Improvement

- **Enterprise Addressing Structure (cont.)**
  - Mapping to Strategy (cont.)
    - ASN (RDA) Strategic Plan 1999-2004
      - Improve the efficiencies of internal processes that have a major impact on cycle times
    - POM06 FORCEnet Capabilities List
      - Provide information transfer
    - Sea Power 21
      - Accelerate information dominance via an enterprise-wide effort to increase interoperability in integrating personnel, weapons and equipment, networks, command and control, and platforms into a superior combat force
  - Mapping to ES FAM Taxonomy
    - 01.05.12. Provide and Track File Transfer Protocol Tools
    - 01.02. Manage Enterprise Architecture and Standards
    - 01.02.01.01. Develop Operational Architectures
    - 01.02.01.02. Develop System Architectures
    - 01.02.01.03. Develop Technical Architectures
    - 01.02.02.02. Develop Data Architecture and Standards
    - 01.02.02.02.03. Assess Interoperability
  - IT Summit Working Group Integration
    - Enterprise Infrastructure Services: End to End Infrastructure

Program Support for GIG ES

- **Program Support for GIG ES**
  - DISA funding model for GIG ES has not yet been released
  - GIG ES is currently being negotiated between high-level DoN and DoD officials- DoN will require support for GIG ES implementation
  - Mapping to Strategy
    - Sea Power 21
      - Partner with the other services to accelerate Navy transformation and maximize joint interoperability
    - GIG v2
      - Requirements for common capabilities to task, post, process, use, store, manage, and protect information resources on demand for warriors, policy makers, and support personnel
      - Facilitate information sharing across systems
    - GES Implementation Memorandum for Secretaries of the Military Departments, CJCS, etc. from USD (AT&L), ASD(C3I)/CIO, and Director, J-6
      - Implementation of GES, that is, the use of applicable mandated CESs, is required for all IT, including National Security Systems, acquired, procured, or operated by any component of the DoD

Program Support for GIG ES

- **Program Support for GIG ES (cont.)**
  - Mapping to Strategy (cont.)
    - Memorandum: DoN Response to Draft GES Implementation Memorandum
      - Need to implement a federated approach to the use of CES where individual programs can continue to make use of their current internal services, as long as they are interoperable and compatible with GES
    - Navy-Marine Corps Business Systems Enterprise Architecture v2.0.0.1
      - Provide an interoperable IT infrastructure that ensures knowledge superiority
  - Mapping to FAM ES Taxonomy
    - 01. Manage Enterprise IM/IT

Program Support for FAM ES

- **Development of detailed migration plans common applications**
  - Funding to initiate migration and upgrades
    - Beyond two-year timeframe
    - Savings will fund out-year expense
  - Funding to provide initial implementation of common applications
    - Provided until individual commands can POM for them
  - Mapping to Strategy
    - N6/N7 Top 9 Issues
      - Integration of Navy Networks
        - » In order to support seamless network interoperability, a plan must be developed to cause Navy Networks to migrate to an enterprise network
  - Mapping to ES FAM Taxonomy
    - 01.01.04. Develop Investment Strategy and Implementation Plan
    - 01.02. Manage Enterprise Architecture and Standards

Program Support for FAM ES

- **Administrative costs to manage Enterprise Services – FAM**
  - Tracking and Planning
  - Providing technical support
  - Mapping to Strategy
    - Incomplete
  - Mapping to ES FAM Taxonomy
    - 01. Manage Enterprise IM/IT

POM ’06 Tiger Team – Members

- **List organizations**